MULTIMEDIA UNIVERSITY®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2016/2017

DCS5288 – INTERNET AND WEB PUBLISHING

(DIT & DBIS Students Only)

20 OCTOBER 2016
2.30 p.m. – 4.30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT:

1. This booklet consists of **9** pages.
2. **SECTION A**: Answer **ALL** questions on the OMR sheet provided.
3. **SECTION B**: Answer **ALL** questions in the answer booklet provided.

SECTION A: MULTIPLE CHOICE QUESTIONS (MCQ) (20 Marks)

Instruction: *Answer all the questions in this section and shade your answers on the OMR sheet provided.*

1. HTTP is _____.
   a. the predecessor to HTML
   b. the transfer protocol of the web
   c. the URL of a web page
   d. none of the above

2. The most commonly used HTTP protocol request methods are:
   a. POST and DELETE
   b. CONNECT and GET
   c. GET and PUT
   d. GET and POST

3. .com and .org are examples of _____.
   a. Generic top-level domain names
   b. URLs
   c. Second-level domain names
   d. DNS

4. Which of the following is **NOT** potentially part of a URL?
   a. protocol
   b. path
   c. server name
   d. query string

5. Choose the **TRUE** statement below.
   a. The content that displays in the browser is contained in the head section.
   b. The content that displays in the browser is contained in the body section.
   c. Information about the web page is contained in the body section.
   d. None of these are true.

6. What type of HTML list will automatically place a number in front of the list items?
   a. numbered list
   b. ordered list
   c. unordered list
   d. description list

7. When a radio button needs to be selected by default, the property _____ can be used in the input tag.
   a. checked
   b. selected
   c. set
   d. chosen

Continued ...

8. Youtube videos could be embedded into a webpage by using the _____ tag.

   a. <insert>
   b. <input>
   c. <iframe>
   d. <link>

9. In the following CSS code, em is the _____.

```
em { color:red; }
```

   a. property
   b. value
   c. style
   d. selector

10. When CSS is coded in the body of a web page as an attribute of an HTML tag it is called _____.

    a. inline
    b. embedded
    c. external
    d. imported

11. Select the CSS code below that set the text within a container with id named "footer" into text of small font size, blue in colour and styled of italic.

    a. #footer { font-size: small; color: blue; font-weight: italic;}
    b. .footer { font-size: small; color: blue; font-weight: italic;}
    c. #footer { font-size: small; color: blue; font-style: italic;}
    d. .footer { font-size: small; color: blue; font-style: italic;}

12. Which of the following configures a margin with following values: right margin 30 pixels, bottom margin 150 pixels, top and left margin 0 pixels?

    a. margin: 150px 0px 0px 30px;
    b. margin: 30px 0 0 150px;
    c. margin: top-30, left-150, right-0, bottom-0;
    d. margin: 0 30px 150px 0;

13. Which of the following returns a NULL value when the user clicked the 'Cancel' button?

    a. Prompt box
    b. Alert box
    c. Confirm box
    d. None of the above.

14. Which of the following is **NOT** a valid JavaScript conditional statement?

    a. if-else
    b. if-then
    c. if-else-if
    d. if

15. Which of the following statement will be evaluated to **TRUE** when x = 7 and y = 2?

    a. (x < 5) && (y > 1)
    b. (x==5) | | (y==4)
    c. !(x >= y)
    d. (x != y) && (y == 2)

Continued ...

16. Based on the following code segment, which of the following is the correct output?

```
var stringval = "123";
var numvalue = 456;
alert( stringval + numvalue);
```

a. 579
b. 123456
c. "123"456
d. 123+456

17. Which of the following is **NOT** a predefined variable in PHP?

a. $_GET
b. $_REQUEST
c. $_ASK
d. $_POST

18. Which of the following is the correct output for the PHP code segment below?

```
<?php
$i = 0
while ($i <= 2)
{
    echo "Well ";
    $i--;
}
echo "Done"
?>
```

a. Well Well Done
b. Well Well Well Done
c. Done
d. Infinite Loop

19. Which of the following is the default PHP session name?

a. PHPSESSID
b. PHPSESID
c. PHPSESSIONID
d. PHPIDSESS

20. Which of the following can be used to diagnose and display information about a MySQL connection error?

a. connect_errno()
b. connect_error()
c. mysqli_connect_errno()
d. mysqli_connect_error()

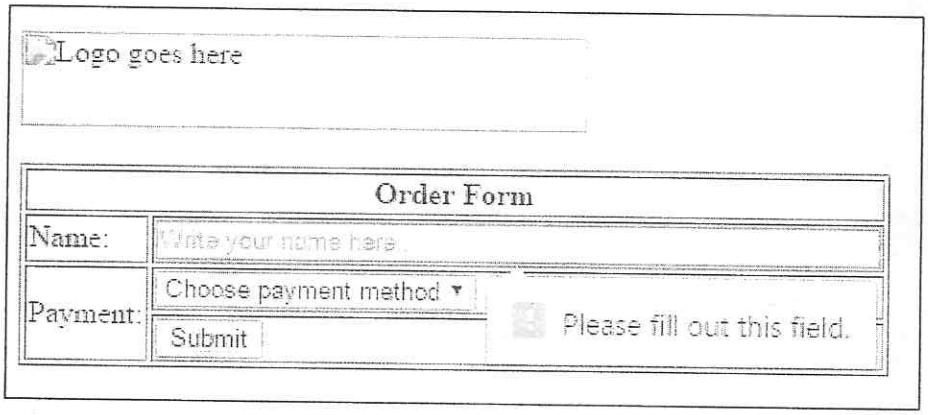
Continued ...

SECTION B: STRUCTURED QUESTIONS (80 Marks)

Instruction: *Answer all the questions in this section and write your answers in the answer booklet provided.*

QUESTION 1 -- HTML (20 Marks)

(a) Write the complete HTML codes to display the page shown below. [16 marks]



- Provide a title for the page "Online Shop" which will appear in the browser toolbar.
- Assume the missing image at the top of the screen is called logo.gif and is in the same directory as your HTML file.
- User must enter his/her name for the order form.
- The payment method drop-down list should also contain Visa and Mastercard options.

(b) Write the HTML codes for the following.

(i) Create the list as shown below. [2 marks]

1. iOS devices
    - iPhone 7
    - iPhone 7 Plus
2. Android
    - Samsung Galaxy Note 7
    - Asus Zenphone 3

(ii) Write the paragraph as below. [2 marks]

HTML(Hypertext Markup Language) is the set of markup symbols or *codes*
inserted in a file intended for display on a World Wide Web browser page.

Continued ...

QUESTION 2 -- CSS (20 Marks)

(a) Write the External CSS codes for the following button. The HTML codes are given for your reference. [13 marks]

```
<body>
     <h1>ROOM FOR RENT</h1>
     <p class="label">Room Type</p>
     <p class="desc">
     Single bed room with single bed.
     <br>Air conditioner.Shared bathroom.
     </p>
     <p class="label">Price</p>
     <p class="desc">RM 300 / month</p>
     <p class="label">Location</p>
     <p class="desc">
     Jalan Senai Jaya 3, Taman Senai Jaya.
     </p>
     <p><input type="submit" name="submitbtn" value = "BOOK NOW"
class="button" />
     </p>
</body>
```

Guides

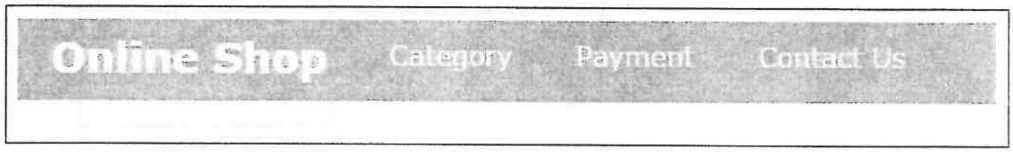
- Entire webpage:
  - Background image room.png is repeated on the left side vertically.
  - The whole page starts 130px from left as not to overlap the image.
- The heading level 1:
  - It is italics and has a line over it. The border is dotted, blue and 5 pixels in width.
  - It has a padding of 10 pixels.
- Class label:
  - They are bold, red and underlined.
- Class desc:
  - The colour is maroon. The font is Arial and the size is 10pt.

Continued ...

- It has a margin of 20 pixels.

- The button:
  - The width is 150 pixels with a 5-pixel space between the border and text. It has a solid 1-pixel border and uses the colour #666666. The background is #10922C with a white font. The button corners are curved by 5 pixels.
  - The button background colour changes to #16BE3A when the mouse goes over it.

(b) Write the Internal CSS codes for header design shown below. The HTML codes are given for your reference. [7 marks]




```
<header>
       <a class="brand" href="#">Online Shop</a>
         <nav>
            <ul>
               <li><a href="#">Category</a></li>
               <li><a href="#">Payment</a></li>
               <li><a href="#">Contact Us</a></li>
            </ul>
         </nav>
</header>
```

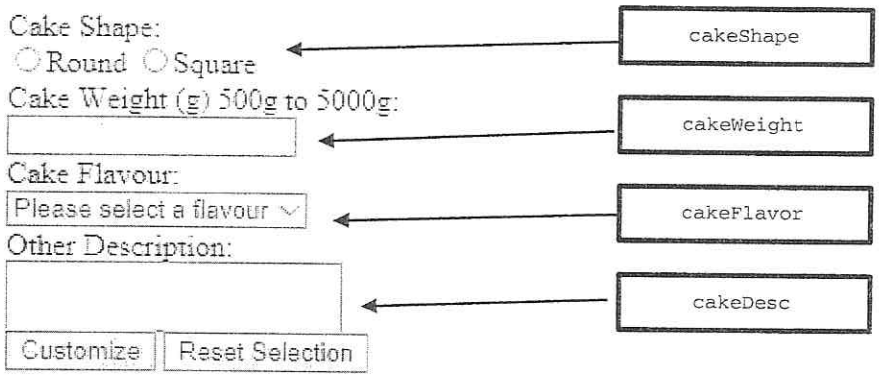
Guides

- Header:
  - Has a background color in *rgb* value of 63, 159 and 217. Uses font of Verdana and the height is 3em.
- Hyperlink for the Online Shop:
  - The text is white, bold and the size is 1.5em. Top padding has value of 8px, right and left padding has value of 20px while bottom padding has value of 12px. There is no underline for the hyperlink.
- Nav:
  - It has top margin value 0.70em, right margin value 1em and both bottom and left margin is 0.
- Unordered List:
  - There is no bullet and the margin and padding are 0 for all sides.
- List item:
  - The item is inline and the padding is 0 for top and bottom and 1em for left and right.
- Hyperlink in the list item:
  - The color is #f5f5f5 and there is no underline.

Continued ...

QUESTION 3 -- JavaScript (20 Marks)

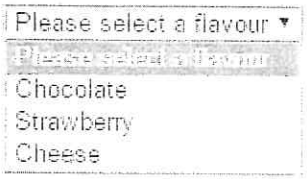
(a) Given the browser output below, write the code for external JavaScript file to validate user input based on the following details. Note the name for each input elements for your reference. The form is named as *customCake*. [14 marks]



- Create the validation code in a function named *checkThis()*. You **DO NOT** need to create the HTML code for the form and the input elements.
- Display an alert box displaying a message *"You need to select either round or square cake"* if none of the radio button for Cake Shape is selected.
- Make sure the user did not leave the Cake Weight textbox empty and only numerical value is accepted. Display a message *"You need to enter the weight of the cake"* using innerHTML property of span element *errorWeight* and return the cursor focus to Cake Weight textbox.
- Display a different error message *"The cake weight should in grams between 500g to 5000g"* in the same span element if the user entered a value outside the range of 500 to 5000 and then return the cursor focus to Cake Weight textbox. Remove the error message if the user entered an acceptable value in the Cake Weight textbox.
- Check if the user selected one of the flavour options. Display a message *"Please choose one flavour that you like"* using innerHTML property of span element *noFlavor* and return the cursor focus to Cake Flavour dropdown list.
- Ensure that the form would not be submitted unless all specified conditions are met.

(b) Create a JavaScript function named *fillFlavourList()*. This function will be called to populate the dropdown list using array instead of being hard coded using HTML. [6 marks]

a. Declare an array called *flavourList* to store these values: Chocolate, Strawberry, Cheese.
b. Using for...loop, populate the dropdown list as shown in the output below.



Continued ...

QUESTION 4 – PHP & MySQL (20 Marks)

Please refer to the following tables to answer the question.

Table: ***Staff***

StaffID	StaffName	Gender
MU030803	Vasudevan a/l Ramasamy	M
MU060911	Suhaan Mushfiq	M
MU070322	Iskandar Ali	M
MU070909	Jane Cheah	F
MU110909	Suri Suziyant	F

Table: ***StaffTraining***

ID	StaffID	TrainingID	Status	Venue	TDate
1	MU030803	MM102	Approved	MUMR1014	14/5/2016
2	MU060911	MM102	Approved	MBMR3016	9/9/2015
3	MU070322	MM103	Pending	MAMR5014	1/7/2016
4	MU070909	MM104	Pending	MBMR3016	19/4/2016
5	MU110909	MM103	Pending	MAMR5014	1/7/2016

Table: ***Training***

T_ID	T_Title	TrainerName
MM102	Goal Setting & Time Management	Muaz
MM103	High Impact Presentation Skills	Robert
MM104	Microsoft Excel 2016 Advanced	Jason Cheah

(a) Write the code to display the records as shown in the sample output below. This page will be used by the admin staff to view staff's training applications. For now, this page only allows the admin to change the status of training from 'Pending' to 'Approved'. The application status will be updated when the admin staff tick the checkboxes and click the 'Approve' button. Note that you need to extract the information from multiple tables. [13 marks]

Sample output

	Staff ID	Staff Name	Training Title	Training Date	Venue	Status
☐	MU030803	Vasudevan a/l Ramasamy	Goal Setting & Time Management	14/05/16	MUMR1014	Approved
☐	MU060911	Suhaan Mushfiq	Goal Setting & Time Management	09/09/16	MBMR3016	Approved
☐	MU070322	Iskandar Ali	High Impact Presentation Skills	01/07/16	MAMR5014	Pending
☐	MU070909	Jane Cheah	Microsoft Excel 2016 Advanced	19/09/16	MBMR3016	Pending
☐	MU110909	Suri Suziyant	High Impact Presentation Skills	01/07/16	MAMR5014	Pending

Approve Clear Selection

Assume the name of this page is ***stafftrainappr.php*** and once the '*Approve*' button is clicked, form details will be submitted to ***apprvtrain.php*** for processing.

Continued ...

(b) Form details submitted by the ***stafftrainappr.php*** page will be processed by ***apprvtrain.php*** page. You need to write the code to update the database to change the status of staff training application from '*Pending*' to '*Approved*'. Once the updating process is complete, the browser will display ***stafftrainappr.php*** with the updated information. [7 marks]

End of Page.